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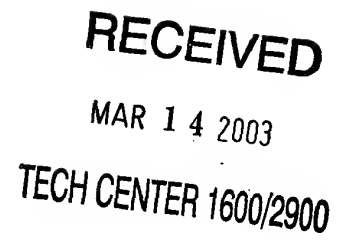
Fig. 1

Fig. 2a



**Fig. 2c**

**Fig. 2d**



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**Fig. 2e**

**Fig. 2f**



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HS-HMC-Dis3	522	-----SARRGTTVYLCEKRIDMVPPELLSS--NLCSLKCDVDRDLAFSCIWEMNHNA-----EILK
MM-hmc-Dis3	522	-----SARRGTTVYLCEKRIDMVPPELLSS--NLCSLRSNVDRLAFSCIWEMNHNA-----EILK
CE-Q17632-Dis3	534	-----AALRGTTVYLCDDRRIDMLPCLLSS--NLCSLRGEEERYAFSCIWTMTSSA-----DIQS
SP-P37202-Dis3	551	-----AASRGTTVYLVDKRIDMLPMLLGT--DLCSLRPYVERFAFSCIWEMDENA-----NIIK
SC-Q08162-Dis3	586	-----GAARGTSVYLVDKRIDMLPMLLGT--DLCSLKPYPVDRFAFSCIWELDDSA-----NIVN
MM-LOBO	424	-----AAERATSVYLVQKVVPMLPRLLCCE--ELCSLNPMTDKLTFSVIWKLTPEG-----KILE
HS-LOBO	51	-----AAERATSVYLVQKVVPMLPRLLCCE--ELCSLNPMSDKLTFSVIWTLTPEG-----KILD

Fig. 2g





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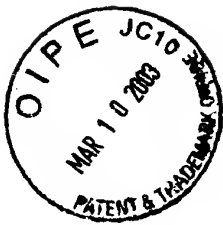
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CE-Q09568-LOBO	363	-----ASERGNSTYLSQTVIPMLPRILCE--QLCSLNPVGVDRLSFSTVFKMSYEA-----ELYD	771	781	791	801	811	821	831
SP-Z99259	496	-----AASRATTVYLQKAIPMLPPLICE--RLCSLNPVNERLAFSVFWKLDNGK-----EIGK							
SC-P24276-SSD1	746	-----ARKRSSAVFMPQKLVNLLPQSFN----DELSLAPGKESATLSVVYTLDSSTL-----RIKS							
SC-P39112	578	GISTDILNVALKRSFTTYLPDTVVVPMPLPQSICHLSDLGKQGQRTKTSFSVDVKITSKCSGKSIEIMYDS							
		----- ----- ----- ----- ----- ----- ----- ----- ----- -----							
			771	781	791	801	811	821	831
HS-HMC-Dis3	574	TKFTKSVINSKASL-YAEAQLRIDSANMND-----DITTSRLGNLKLAKILKKRIENGA							
MM-hmc-Dis3	574	TRFTKSVINSKASL-YAEAQMRRIDSAAMND-----DITTSRLGNLQAKILKKGRIEKG							
CE-Q17632-Dis3	586	VKYHKSLIKSKAALTYEKAQEIIDDPKEQN-----DVALGLRGLMKLSKVLNARRTGNGA							
SP-P37202-Dis3	603	VHFTKSVIASKEAFSYADAQARIDDKMQD-----PLTQGMRVLLKLSKILKQKRMDEGA							
SC-Q08162-Dis3	638	VNFMKSVIRSREAFSYEAQALRIDDKTQND-----ELTMGMRALLLKLSVKLKQKRLLEAGA							
MM-LOBO	476	EWFGRTIIRSCTKLSYDHAQSMIENPTTEKIPPEELPPISEHSVEEVHQAVLNHLSIAKQLRRQRFVDGA							
HS-LOBO	103	EWFGRTIIRSCTKLSYDHAQSMIENPTTEKIPAKELPPISEHSVEEVHQAVLNHLSIAKQLRRQRFVDGA							
CE-Q09568-LOBO	415	VWFGRSVIRSRVKLAYEHAQDFIENPEKDFTCDELDPDISDGNTPFEIKEKTLMLHRIAQVLRQKREDSGA							
SP-Z99259	549	RWFGKTVIKTCARLAYSEAQGVIEGKSWDDAVG--KPIGGTHTPKDVTESILTLCESIRKLKDRFAKGA							
SC-P24276-SSD1	798	TWVGESTISPSNLSLEQLDEKLSTGSPTS-----YLSVQEIARSFYARRINDPE							
SC-P39112	648	FKIRKGIVSNFPKATYEDVDRILGTPNSEAS-----PVKDLLESLSMISKLLREQRIKNSN							
		----- ----- ----- ----- ----- ----- ----- ----- ----- -----							
			841	851	861	871	881	891	901

Fig. 2h



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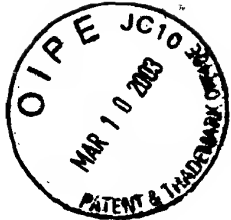
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HS-HMC-Dis3	628	LTLSSPEVRFHMDSETHDPIDLQTKELRETNSMVVEEFMLLANISVAKKIHEEFSEHALLRKHPAPPPSNY
MM-hmc-Dis3	628	LTLSSPEIRFHMDSETHDPIDLQTKELRETNSMVVEEFMLLANISVAKKIHEEFSEHALLRKHPAPPPSNY
CE-Q17632-Dis3	641	LTLASSEVRFHMDSETHDPIDLQTKELRETNSMVVEEFMLLANISVAKKIHEEFSEHALLRKHPAPPPSNY
SP-P37202-Dis3	658	LNLASPEVRIQTDNETSDPMDVEIKQLLETNSLVEEFMLLANISVAKKIHEEFSEHALLRKHPAPPPSNY
SC-Q08162-Dis3	693	LNLASPEVKVHMDSETSDPNEVEIKKLLATNSLVEEFMLLANISVAKKIHEEFSEHALLRKHPAPPPSNY
MM-LOBO	546	LRLDQLKLAFTLDHETGLPQCHIEYRDNSKLVVEEFMLLANMAVAHKIIFRTFPEQALLRRHPPPPQTKML
HS-LOBO	173	LRLDQLKLAFTLDHETGLPQCHIEYRDNSKLVVEEFMLLANMAVAHKIIFRTFPEQALLRRHPPPPQTKML
CE-Q09568-LOBO	485	LRIELPRLKFALDEDK-KPQGVSIYEIKDSNKLVEEFMLLANMEVAKKIAENFEHALLRNHPPPPKEKMI
SP-Z99259	617	VEINSTEKLFQDEYG-MPNKCEVYEQTDANHLIEEFMLLANRSVAEHISKNFSNNSLRRHASPKEKQI
SC-P24276-SSD1	849	ATLPTLSLLESDEKVKVDNLIDRTGLFVWINEIKRKNSTVAEKIYTKLGDALLRRQMQUIATKM
SC-P39112	704	AVIFGEGFNKGLVMLN---ADSEGELETEVTFSDQEETLSTILVSEMMILANTLTGRYFAEN---KI
	911	921 931 941 951 961 971
HS-HMC-Dis3	698	EILVKAARS-RNLEIKTDTAKSLAESLDQAESPTFPYLN--TLLRILATRCMMQAVYFCSGMD----
MM-hmc-Dis3	698	DILVKAARS-KNLQIKTDTAKSLADSLDRAESPDFFPYLN--TLLRILATRCMMQAVYFCSGMD----
CE-Q17632-Dis3	711	KPLVEAARH-RGFEEIIVESGKGLADSLNRCVDDKKNPMLN--RLLRMLTTRCMTQAVYFSAGKDGFSDIKL
SP-P37202-Dis3	728	DSLQDILRVCKGMHLKCDTSKSLAKSLDECVDPEPYFN--TLLRILATRCMLSAEYFCSGTFAP----
SC-Q08162-Dis3	763	EILNEMLNTRKNMSISLESSKALADSLDRCVDPEDPYFN--TLVRIMSTRCMMQAVYFCSGAYSY----
MM-LOBO	616	SDLVEFCDO-MGLPMDVSSAGALNKSLTKTFGDDKYSLARKEVLTNNMYSRPMQMALYFCSGMLQD----
HS-LOBO	243	SDLVEFCDO-MGLPMDVSSAGALNKSLTKTFGDDKYSLARKEVLTNNMYSRPMQMALYFCSGMLQD----
CE-Q09568-LOBO	554	KDVAEQCAR-IGFPLDGRSGLLSTSLRKYQKSRDLMCIRQVSSLTIKPMQQAQYFCT--FEM----
SP-Z99259	686	NEFCHFLKS-MNFDFASSAFAFNAMVRLRSTFNEELV--ELFENMAVRSNLNRAEYFCTGDFGEK----
SC-P24276-SSD1	919	ASFRKKIQN-FGVNFDNTADELIKGVKIKDDDDVRVGI-----EILLFKTMRPRARYFIAGKVD----
SC-P39112	764	GGVFRCKYQ--LPLGEVAQQQYDSMITSTKKGIFPKLK-----DIVKLSLLNSSFYTGPRFR----
	981	991 1001 1011 1021 1031 1041

Fig. 2i

**Fig. 2j**



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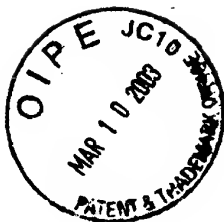
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HS-HMC-Dis3	835	QLFFKSKG	-----IVSEEAYILFVRKNAIVVLIIPKYGLEGTVFFFEKDKPNPQLI-----
MM-hmc-Dis3	835	QLFFKSKG	-----IVSEEAYILFVRKNAIVVLIIPKYGLEGTVFFFEKDKPKPRLA-----
CE-Q17632-Dis3	918	VRVFKGK	-----VETCEGFVMGVRNNGIQVFVPKYGLESIIVLQTSAAAG--TT-----
SP-P37202-Dis3	868	GQALKGG	-----VAEEDAYVIVKVFKNNGFVFIARFGLGIVYTKSLSSVLEPN-----
SC-Q08162-Dis3	903	GQVMRNN	-----ESTETGYVIVKVFKNNGIVVLPKFGVEGLIRLDNLT--EDPNS-----
MM-LOBO	756	AVLVKESG	-----PLESEAMVMGVNLNOAFDVLVLRFGVQKRIYCNALALRSYSFQ-----
HS-LOBO	383	AVLVKESG	-----PLESEAMVMGILKQAFDVLVLRFGVQKRIYCNALALRSHHFQ-----
CE-Q09568-LOBO	693	GVFIHQTG	-----PMKCCQAVVLGVMDLSFDVLIIVEYGVVKKRVYVDKMKR---DFN-----

Fig. 2k



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SP-Z99259	823	SVYIAEYCKKHKKMPVQAFATRISGNSIDVYISEYGISNRVDLSSDDR-IKSFY	1191	1201	1211	1221	1231	1241	1251
SC-P24276-SSD1	1052	CKTINDMGNTTG--QLLTMTATVLQVYESSFDVFIPEFGIEKRVRHGDQLPLIKAEDGTNRVLELHWQPGV							
SC-P39112	890	LNLYKKL-----TKLEPERTFDVMVT-----SVPQNGFTGCVFPDLSFARGTLK-----							
		-----	1191	1201	1211	1221	1231	1241	1251
HS-HMC-Dis3	885	-----YDDEIPSLKIED-TVPHVFDKVKVKIMLDSSNLQHQKIRMSLVEPQIPGIS							
MM-hmc-Dis3	885	-----YDDEIPSLRIEG-TVPHVFDKVKVKITLDSSNLQHQKIRMAIVEPQIPGIN							
CE-Q17632-Dis3	965	-----IDVEEMSVKVGNDVVIKELPEVTVRISVNEKNQQRPRVELQLIKPAIPGLS							
SP-P37202-Dis3	916	-----VEYVEDEYKINI--EIRDQPKPQT---VQIQMFQQVRVRVTTVRDEHSGKQ							
SC-Q08162-Dis3	950	-----AAFDEVEYKLTFF--VPTNSDKPR-----DVYVFDKVEVQVRVMDPITSKR							
MM-LOBO	806	-----KVGKKPELTLVWEPE-DLE---EEPTQQVITIFSLVDVVLQAEATALKYSA							
HS-LOBO	433	-----KVGKKPELTLVWEPE-DME---QEPAAQQVITIFSLVEVVLQAEATALKYSA							
CE-Q09568-LOBO	740	-----KSTEK--LTIYWPADPNABSGNREEFSSSIQMCNVVYVIL-VPYKSTIEVSA							
SP-Z99259	878	-----VAPDDSSVKITL---FDDS---Q-K--TIALTDRFQVYLYSDYSRTFFSI							
SC-P24276-SSD1	1120	DSATFIPADEKNPKSYRNSIKNFRSTAAEIANIELDKAESEPLISDPLSKELSDLHLTVPNLRLPSAS							
SC-P39112	934	-----LHPSSMHYPMIG-----DIVKNCKISKIDCLEGMLELEKL-----							
		-----	1261	1271	1281	1291	1301	1311	1321

Fig. 21



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HS-HMC-Dis3	935	IPTDTS	-----NMDLNGPKKKMKLGK-----	-----	-----
MM-hmc-Dis3	935	IPPVNA	-----DKALTPAGGKKRKLEK-----	-----	-----
CE-Q17632-Dis3	1016	V-----	-----DFDLSSEG-----LGL-----	-----	-----
SP-P37202-Dis3	962	K-----V-----	-----QITLVY-----	-----	-----
SC-Q08162-Dis3	994	K-----A-----	-----ELLLK-----	-----	-----
MM-LOBO	853	ILKRPQ	-----LEKASDEEPED-----	-----	-----
HS-LOBO	480	ILKRPQTQHLGPEKEEESDGEPEDSSTS	-----	-----	-----
CE-Q09568-LOBO	788	TIVRPS	-----LEQRNILKSTLKDMMKETGSTILO-----	-----	-----
SP-Z99259	919	R-----	-----CSLVSLN-----	-----	-----
SC-P24276-SSD1	1190	DNKQNALEKFISTETRIENDNYIQEIHELQKIPILLRAEVMALPCLTVRALNPFMKRV	-----	-----	-----
		1331	1341	1351	1361
					1371
					1381

Fig. 2m

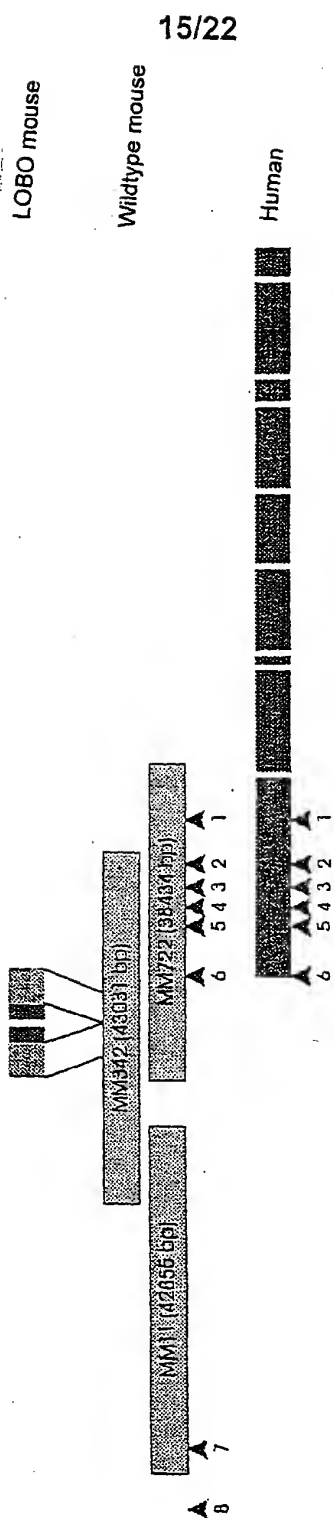


Fig. 3

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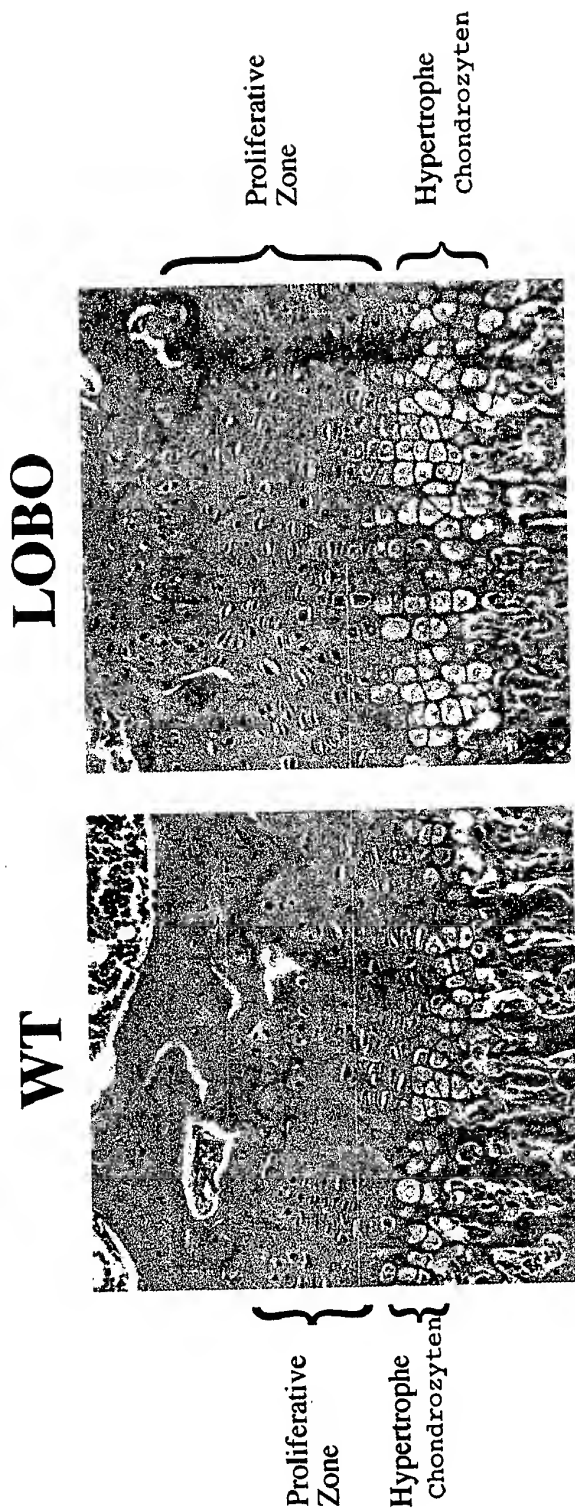
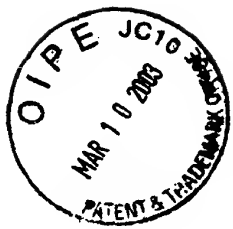


Fig. 4





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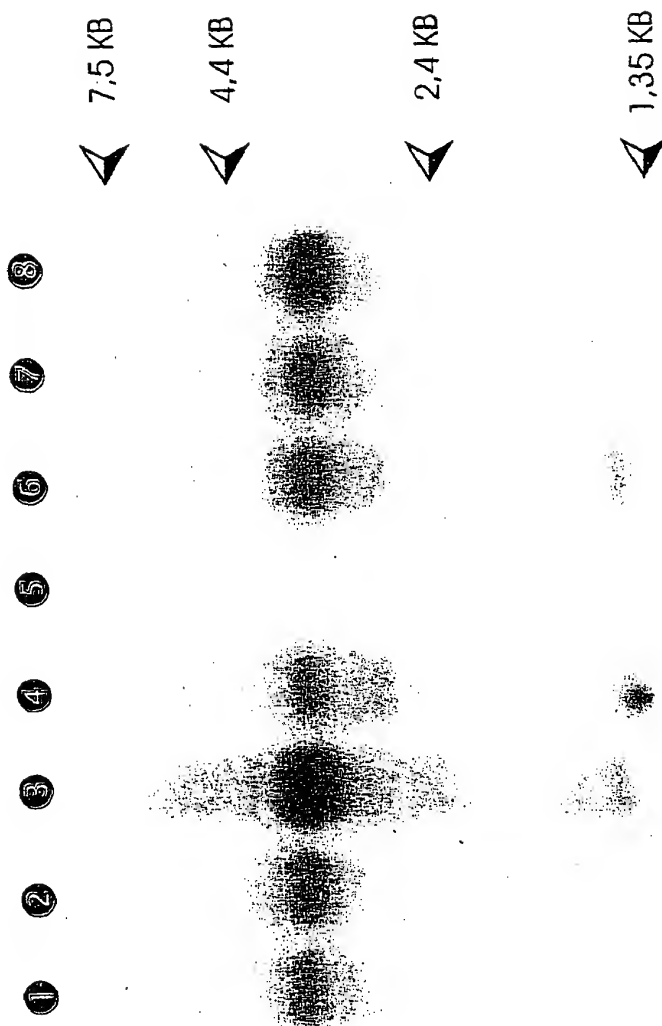
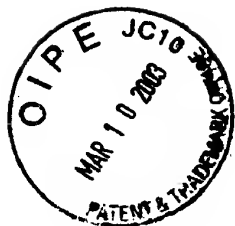


Fig. 5



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## Dis3 Proteins

## VACB / RNase II

## LOBO

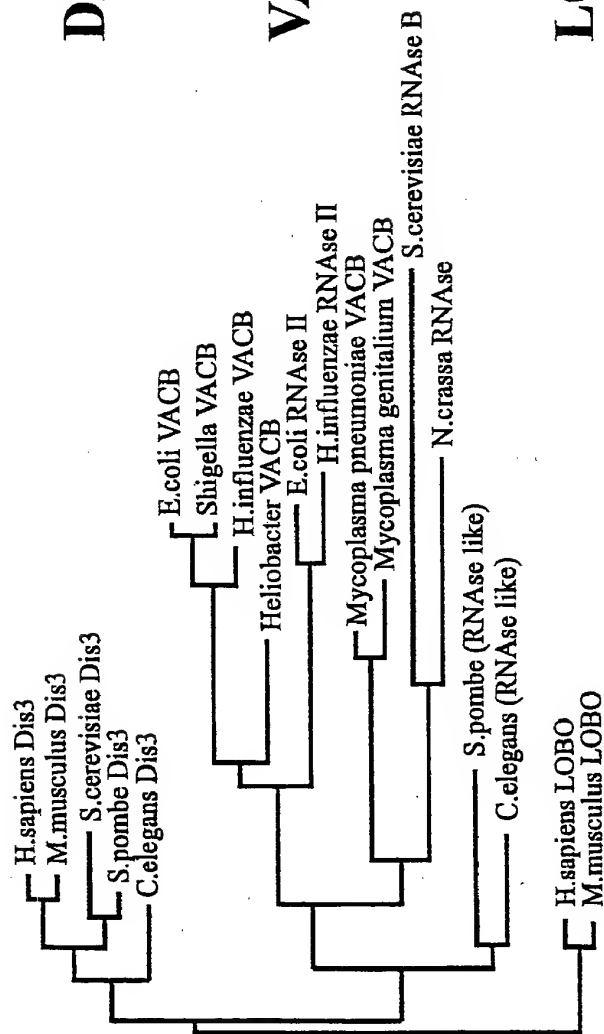
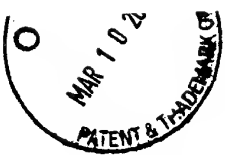


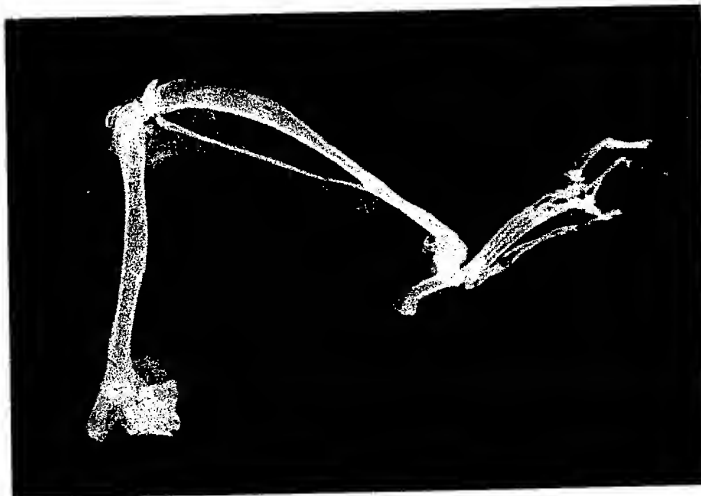
Fig. 6



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LOBO



WT

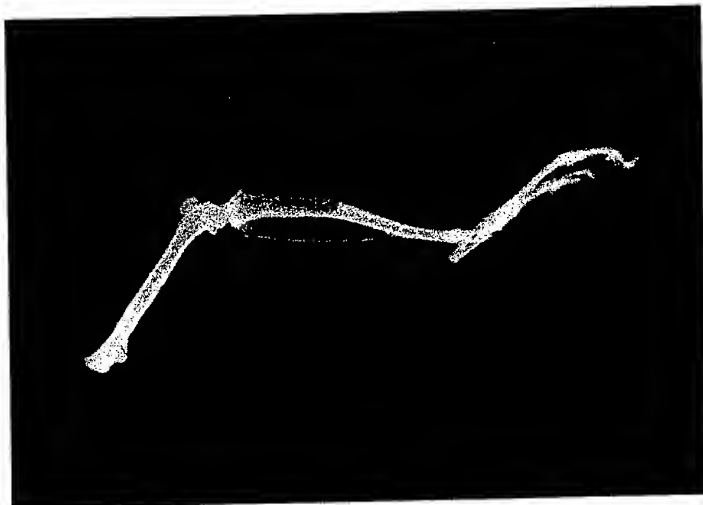


Fig. 7

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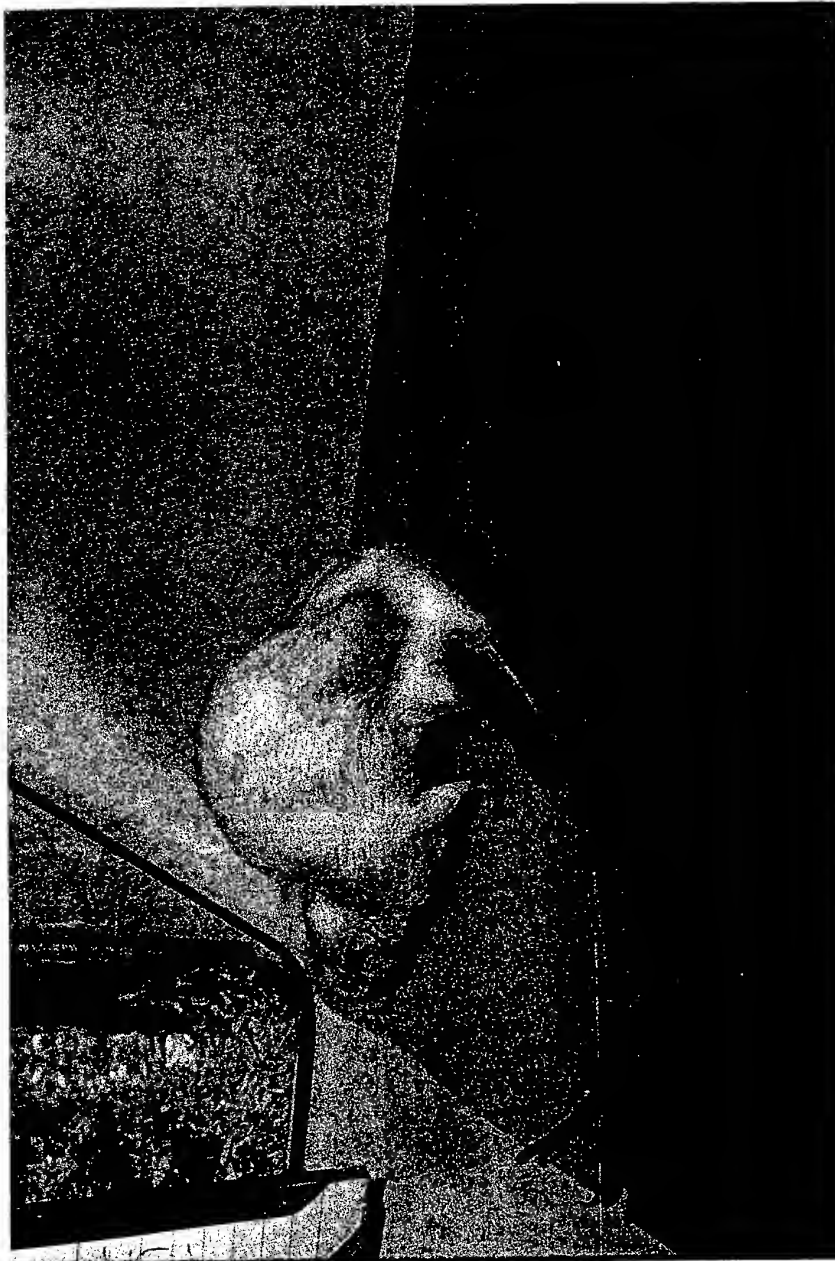


Fig. 8

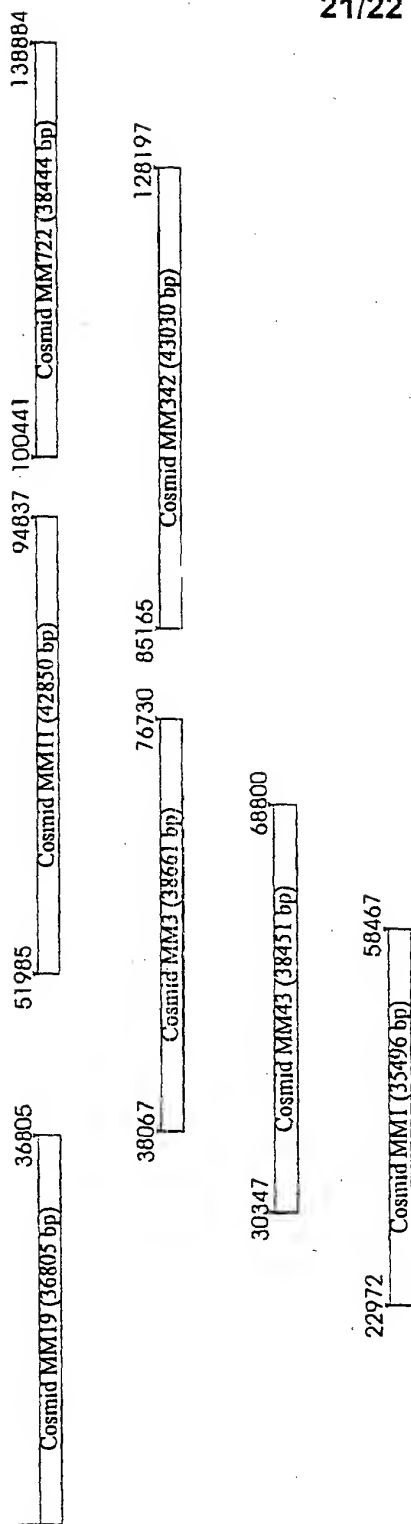


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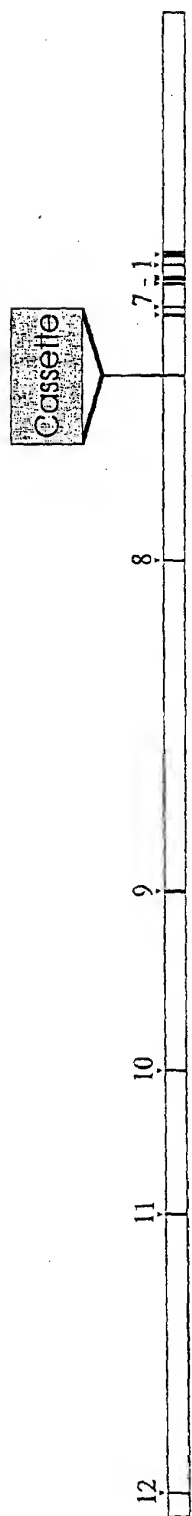
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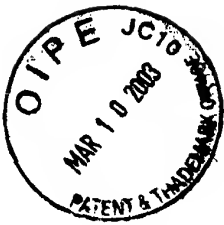


A

Fig. 9



B



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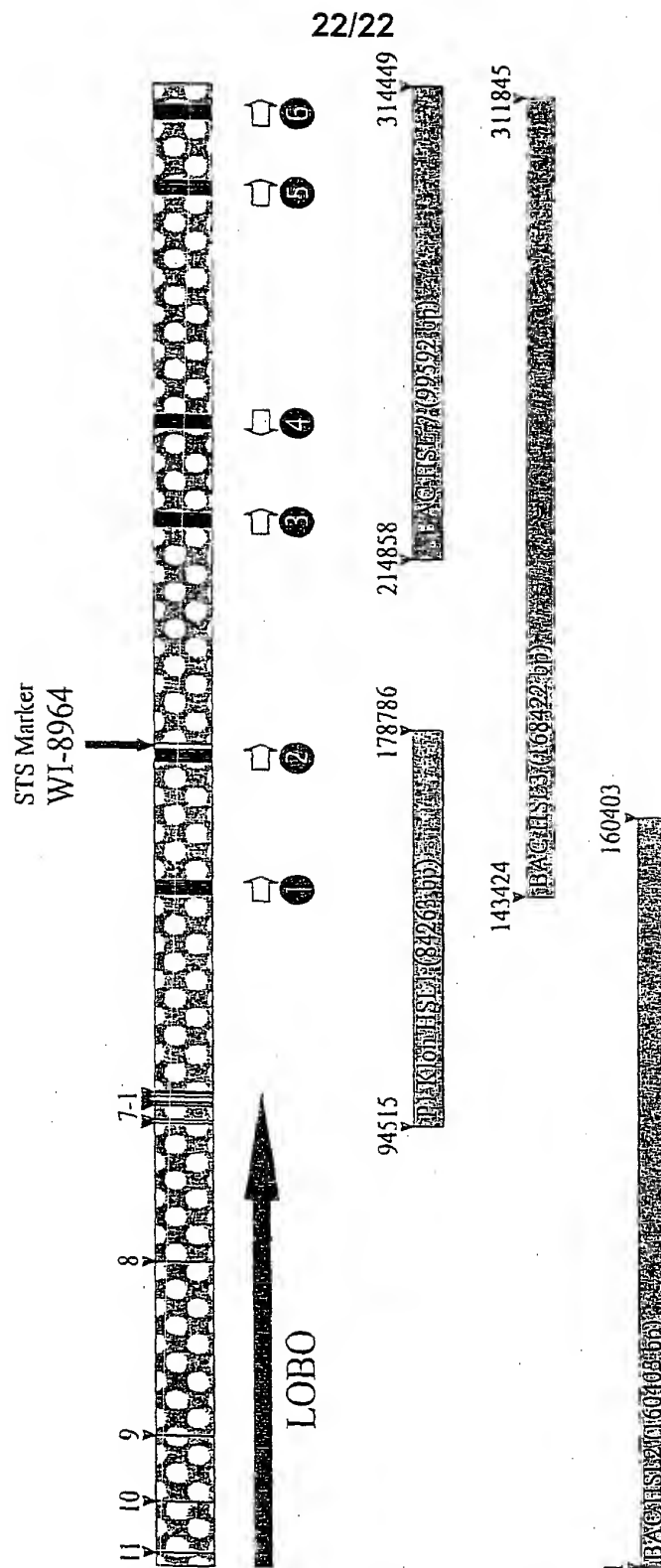


Fig. 10